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The Missouri Miner, April 12, 1926

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Doc Fulton

THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Vol. 12.

Monday, April 12, 1926.

No. 28.

TAU BETA PI INITIATES.

Banquet Also Held in Honor of New Members.

The Beta of Missouri Chapter of Tau Beta Pi held its spring initiation on Monday evening, April 5. The national secretary-treasurer of Tau Beta Pi, R. C. "Red" Matthews, Professor of Descriptive Geometry and Drawing at the University of Tennessee, visited the School of Mines on Monday, and was present at the initiation. Prof. Matthews is noted for being the one who, years ago, originated the present system of concerted yelling at athletic games.

Prof. Matthews assisted in initiating the following men into Tau Beta Pi: Dr. G. A. Muilenburg, Prof. R. M. Rankin, E. C. Hunze, J. M. Wilson, Jr., P. K. Hoover, R. E. Hilpert, C. T. Jones, Fred Clearman, and Herman Blickensderfer.

Immediately after the initiation ceremony the chapter adjourned to the Peacock Food Shop, where the semi-annual banquet was held. Prof. H. R. Hanley acted as toastmaster, and, among others, talks were made by Professor Matthews and Dr. C. H. Fulton. The following members from other chapters were present: Dr. C. H. Fulton, Alpha of New York; C. R. Forbes, Beta of Michigan; V. L. Austin, Alpha of Kansas; C. V. Mann, Beta of Colorado; and H. C. Beckman, Alpha of Iowa. Several of the alumni from the M. S. M. chapter were also present.

Although Tau Beta Pi is primarily an engineering scholarship fraternity, phenomenal grades alone do not assure a student of election, but he is also judged upon his character, personality, loyalty, and participation in school activities. High grades merely make a man eligible to be voted on. Thus, for example, a man with ephemereal grades may be rejected on the grounds of his being unsociable and discourteous. The first quarter of every class is eligible and here no one with an average below 80 is considered.

The local chapter was established in 1906 and there are now 49 chapters throughout the engineering schools of America.

HAVE YOU VOTED?

The Miner's "wet, dry, or damp" straw vote will close on Thursday, April 15. If this is to be a representative vote, showing the attitude of M. S. M. toward the Eighteenth Amendment and the Volstead Act, every subscriber must place his ballot in the ballotbox at Parker Hall. Inasmuch as the results will be published in next week's Miner, and because these results probably will also be broadcast throughout the country by our exchanges, it is of the greatest importance that this ballot be representative of the school.

Don't say to yourself, "What's the use? I know how the Missouri School of Mines will vote." The number of ballots cast is as important as the answers given to the questions.

If you haven't voted hunt up last week's Miner, tear out the ballot on page nine, vote "Yes" or "No", and place it in the ballot-box in the lobby of Parker Hall. VOTE NOW.

DISCUSSES ORIGIN AND AGE OF THE EARTH.

Prof. G. A. Muilenburg's lecture at Parker Hall Thursday night on the "Origin and History of the Earth" was well received by an appreciative and greatly interested audience. A large number of slides were shown, which illustrated effectively the various points which Prof. Muilenburg wished to emphasize.

In discussing the origin of the earth he explained the various hypotheses, and showed why the planetesimal hypothesis has almost superseded the Laplacian, or nebular, theory. Gradation, a dynamical force which produces geological changes, was illustrated by showing the results of weathering by frost, wind, solution; alternating hot and cold temperatures, streams, glaciers, ocean waves, etc. The transportation and deposition of sediments was also discussed in explaining the methods in which stratified rocks are formed.

Following a brief discussion of paleogeography, Prof. Muilenburg explained the various methods by which the age of the earth is determined. Some of these methods which were exceptionally interesting, and which were brought out very clearly in-

PRETTY HIGH SCHOOL GIRL RESCUED BY BRAVE MINERS.

Student, Locked in Building, Escapes From Second-Story Window.

Miss J. W., diligently pursuing knowledge, had given little heed to the lateness of the hour when she found the doors in the High School building locked as she sought to leave about 5:45 p. m., Thursday, April 8. The janitor, supposing everyone to be out, had securely fastened all the doors and windows on the first floor.

With some misgiving and an anxious thought for the supper hour, she retreated to the center window in the second story, where she could more easily signal anyone passing on the street. A fair lady imprisoned in a medieval castle, seeing an approaching knight, could not have been happier than Miss J. W. when she saw Sullivan, Jones, and Dittmer come within hailing distance. They, instantly realizing the fair one's plight, quickly found a ladder, which they secured against the building, and prepared to assist in her perilous descent. Mr. Dittmer, to test the ladder, courteously ascended, closed the window, and held the young lady's books while she started to climb down. Half way down Mr. Sullivan met Miss J. W., and persuaded her to steady herself by placing her hand on his shoulder; she blushingly consented. Once safely on the ground she mumbled her thanks and with more than one reluctant glance behind strolled off in the direction of her home.

The boys, seeing signs of supper-serving at the House a short distance away, abandoned the ladder, anchored their feet on solid ground, and moved off hastily in imaginative response to appetizing odors of food.

cluded (1) the rate of recession of Niagara Falls, (2) the rate of deposition of limestones, (3) the amount of material carried by streams, (4) the rate of deposition of mud from streams, and (5) the rate of increase of salinity of the ocean.

WHO'S WHO IN ROLLA.

(Note:—As this is the last issue of The Miner to be published under the editorship of H. S. Thomas, we are running this article, without his knowledge, to in part pay tribute to his successfulness as Editor the past year. We cannot praise too highly his accomplishments and ability in maintaining The Miner's high standing with respect to news, form, content, and general excellence.)

Harold Scott Thomas, of Douglas, Wyoming, Editor of the Missouri Miner, chief fossil hound of the M. S. M. Geology Department, outstanding student in Thayer's General Science course, and head of a large family.

Mr. Thomas was graduated from the Alliance, Nebraska, High School, and prior to the World War was a printer by trade, being employed as head pressman by one of the large Nebraska dailies. During the war Thomas entered the service in the Signal Corps, telephone communication branch. He served a year in France, and was discharged with the rank of Sergeant. He is now a Vocational student at M. S. M., an officer in the local Post of the Veterans of Foreign Wars, and owns a 320-acre Government land grant at Douglas, Wyoming.

Mr. Thomas is a General Science student, and his favorite pastime is that of arguing with "Boots" Clayton and Prof. Forbes over the merits of the General Science course, through the columns of The Miner. He is majoring in geology, however, and intends to operate a fossil ranch on his Wyoming land grant some day.

During the past summer Thomas was field assistant to Prof. Bridge on his geological explorations through the wilds of Cape Girardeau County, and possessed an uncanny propensity for discovering numerous stills, a habit peculiar to many M. S. M. students. In addition to the activities already named, Thomas is a member of Theta Tau, and Vice-President of the Independents. Without a doubt The Miner Board will keenly feel his absence from the Editorial Staff in the future, but it will learn much from his ability and originality in editing The Miner.

KRAUSE-SMITH.

News of the marriage of Miss Ethel Smith, of Rolla, to Kenneth F. Krause, '29, a member of Pi Kappa Alpha fraternity, on Friday of last week, reaches The Miner as we go to press. Congratulations.

Patronize our Advertisers.

SUPT. LEWIS TO LECTURE.

The last lecture in the General Lectures course this year will be given in Parker Hall, Thursday, April 15, at 7:30 p. m., when Supt. B. P. Lewis of the Rolla public schools will speak on "Mental Yardsticks."

Objective standards of measurement have been adopted in almost every field of human endeavor. On account of the elusive human elements involved educators have been slow to introduce objective standards for measuring the products and processes in education. The United States Government, during the World War, emphasized the value of such objective measurement, and much progress has followed in recent years. The movement has taken on two lines of development, measurement of individual capacity, and measurement of progress in school subjects.

Supt. B. P. Lewis will illustrate his discussion by large charts showing results of testing during the past two years in Rolla schools. He will endeavor to show in a brief way what the testing program is all about.

"DOC" ARMSBY TO MINNEAPOLIS

Prof. H. H. Armsby left Saturday morning for Minneapolis to be gone until next Friday. While there he will attend the convention of the American Association of Collegiate Registrars.

It is said that "Doc" has run out of new rules and regulations but that he took his brief case along and will try to fill it with ideas from other schools.

SPEAKS AT MASS MEETING.

Rev. H. P. Hunter, director of the Wesley Foundation at M. S. M., and a golf fan of no mean ability, spoke at mass meeting last Friday morning on the subject, "Your Name and Its Development." In addition to being a golf bug, a good mixer, and a singer of unusual ability, Mr. Hunter is an excellent speaker, and the students and members of the faculty who heard him were well pleased with his talk Friday. Those who missed it missed a treat.

Before Mr. Hunter spoke, Dr. Fulton discussed briefly compulsory attendance at mass meetings and the indifference of students to the opportunities offered them to hear the best speakers the nation affords. The small attendance at Dr. Bain's lecture a short time ago was cited.

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ALUMNI.

Fred Grotts, formerly Metallurgist for the Holt Tractor Company at Peoria, Illinois, is now General Foreman and Metallurgical Engineer for the American Steel Foundries, Granite City, Illinois. He is temporarily domiciled at the Y. M. C. A., Granite City, Ill.

A. F. Delaloye is Resident Engineer for the Western Coal and Mining Company and is located at Pittsburg, Kansas.

D. E. Huffman, Jr., is now Metallurgist and Chemist for the Republic Creosoting Company at Provo, Utah.

W. O. Hotchkiss, President of the Michigan College of Mines, will be the guest of Dr. H. A. Buehler this week. Mr. Hotchkiss, accompanied by Mrs. Hotchkiss, is visiting several of the mining schools of the country.

Mr. Holstedt, of the Western Electric Company, will be in Rolla, April 13 and 14 to talk to Seniors who may be qualified to take positions with his company.

J. D. Harlan, Mining Engineer with the United Smelting and Refining Company, is at present doing work with the Hammon Consolidated Gold Fields at Nome, Alaska. His permanent mail address is care of the above Company at 55 Congress Street, Boston, Mass.

George Walter Dean, B. S. '97, E. M. '00, with the Hoyt Metal Company of St. Louis, has been visiting in Rolla for several days.

M. S. M. GRAD AT
SHURTLEFF COLLEGE.

In the March 24 number of the Shurtleff Pioneer a former graduate of the Missouri School of Mines, Elmer Edward List, was given an extensive write-up as a member of the Shurtleff faculty. Prof. List received two degrees at M. S. M., his B. S. in 1910 and his M. S. in 1922. He engaged in mining and metallurgical work until the beginning of the World War, when he took up work in the Ordnance Department of the U. S. Army and was stationed at Muscle Shoals, Alabama. He assisted in the construction and operation of the government nitrate plant and became assistant superintendent of the carbide plant.

After taking his Master's degree, Prof. List was chemical engineer at

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the dynamite plant at Grafton, Ill. He aided in drawing up the plans of the present plant at Grafton. In 1923 Prof. List went to Shurtleff to take charge of the Department of Biology and Geology. Not only has he added several new courses, but he has succeeded in building up his department to a very high standard.

HOTCHKISS ON EDUCATION.

In a recent address to the students of the Michigan College of Mines, Dr. W. O. Hotchkiss, head of that institution, said some pertinent things which are well worth repeating:

"Technical education is over-emphasized."

"Notes form the poorest sort of an educational background."

"The country is oversupplied with uneducated engineers."

"One of the requisites for an education is spare time in which to think."

"A man's biggest asset is his circle of friends and acquaintances."

Love is a temporary insanity caused by an itching sensation of the heart which cannot be scratched.—M. C. M. Lode.

THE MISSOURI MINER.

The Official Publication of the
M. S. M. Alumni Association.

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Issued Every Monday.

MINER BOARD TO ELECT.

Tuesday, April 13, is the date for the annual election of members to The Missouri Miner Board. The 1926-27 Board will consist chiefly of the present members and, although there will be a number of changes made in the staff, but few changes will occur in personnel. Every member of the staff is urged to be present at this meeting, Tuesday, 7 p. m., at The Miner office.

JACKLING WINS MINING AWARD.

Daniel C. Jackling of San Francisco, president of the Utah Copper Company, mining engineer and railroad builder, has been awarded the gold medal of the Mining and Metallurgical Society of America.—Globe Democrat.

"DEAR MR. EDITOR:"

Editor's Note.—This column is a medium through which The Miner readers are invited to express their opinions, sentiments, or anything pertaining to M. S. M. Articles must be signed, but names are printed only with the consent of the writer.

Dear Mr. Editor:

Last Friday's Mass Meeting, like many others this year, was attended by a very small proportion of the students. Needless to say, a small audience must necessarily render ineffective these lectures delivered by men of the highest rank in their lines of work, and such a lack of attendance is manifestly discourteous to the speaker. The school has been successful this year in obtaining speakers of the highest calibre, well acquainted with their subjects, and capable of presenting their talks in the most interesting manner possible. These facts are well known but what is the net result? The students fail to attend mass meetings and all the efforts are wasted.

Why is this true? It is doubtful if the most exacting analysis will arrive at a conclusion materially different from the one which follows. Franky stated, many of the students are not mentally capable of appreciating a lecture on a subject slightly elevated above their ordinary plane of thought. Furthermore they are not broadminded enough to take any sort of interest in a subject not included in the restricted field covered by the particular course of study which they are following. In other words, they have not grasped the true purpose of an education, have no desire to, and it is doubtful if they could do so, anyway.

The purpose of this letter is not to propose a means of forcing students to attend mass meetings but rather to uncover the underlying reasons for this apparent indifference, so that means might be proposed to remedy this condition. It is truly strange that in an institution such as this, only a scant handful of students turn out to mass meeting, whereas the library is besieged at all hours by students clamoring for an opportunity to read "Hatrack" in H. L. Mencken's American Mercury. Perhaps this solves the mystery of "Why?"

C. F.

Dear Mr. Editor:

Continuing the little discussion on the success of General Science stu-

dents graduating in the olden days. Just read below the army of credited subjects that followed the General in the olden days when men were men and women were Mining Engineers. This is just a sample of the old time curriculum and is worthy of comparison with the present one. No freehand drawing; no physics without calculus; no special easy course in mathematics (Prof. Dean taught 'em all); just a well rounded course in engineering.

Four courses in mathematics.
Four courses in mechanics.
Four courses in physics.
Four courses in chemistry.
Three courses in mining.
Four courses in surveying.
Two courses in drawing.
Six courses in English.
Seven courses in geology..
One course in shop work.
Twenty-three courses in metallurgy.

METALLURGIST.

SIGMA XI AT M. S. M.

Sixty-nine students of the University of Illinois have just been elected to membership in Sigma Xi, honorary scientific fraternity. Sigma Xi is a national honorary fraternity for students in the fields of mathematics, geology, civil engineering, chemistry, physics, zoology, psychology, agronomy, entomology, and home economics.

Although the Missouri School of Mines has no Chapter of Sigma Xi, a number of the faculty members belong to this fraternity. The society gives the members in different schools the right to organize local clubs at their school without being an organized Chapter of Sigma Xi. Such a club exists at M. S. M., consisting of the following members: Dr. H. A. Buehler, Dr. C. H. Fulton, Dr. W. D. Turner, Dr. L. E. Woodman, Dr. C. L. Dake, Prof. F. H. Frame, Dr. H. L. Dunlap, Prof. G. A. Muilenburg, Prof. J. Bridge, Dr. W. T. Schrenk, Dr. C. J. Monroe, Prof. C. E. Kerchner, Prof. W. J. Jensen, Prof. L. W. Currier, Mr. H. S. McQueen, and Mrs. G. A. Muilenburg.

TO HOLD BUREAU OF MINES
CONFERENCE HERE.

At the U. S. Bureau of Mines conference to be held in Rolla April 14 to 17 inclusive, a complete account of which will be published in next week's Miner, the following men high up in the profession will be in attendance:

Dr. W. O. Hotchkiss, President of

the Michigan College of Mines.

S. S. Tuthill, Secretary of the American Zinc Institute, New York City.

D. A. Lyon, Assistant Director of the Bureau.

O. C. Ralston, Assistant Chief Metallurgist and Superintendent of Berkeley, California, Experiment Station.

Dr. W. R. Crane, Superintendent of the Southern Experiment Station, at Birmingham, Alabama.

Dr. Oliver Bowles, Superintendent of the Non-Metallic Station, New Brunswick, New Jersey.

G. A. Bole, Superintendent of the Ceramic Station, Columbus, Ohio.

B. O. Bird, Superintendent of the Seattle Coal Washing Station, Seattle, Washington.

Oscar Lee, Associate Metallurgist from the Southern Experiment Station at Tuscaloosa, Alabama.

A. W. Fahrenwald, Concentration Engineer, from the Moscow, Idaho, Field Office.

C. O. Anderson and W. H. Coghill, Concentration Engineers from the Miami, Oklahoma, Field Office.

H. D. Keiser, Assistant Mining Engineer of the U. S. G. S. at Miami, Oklahoma.

VETERANS TO GET SCHOLARSHIPS.

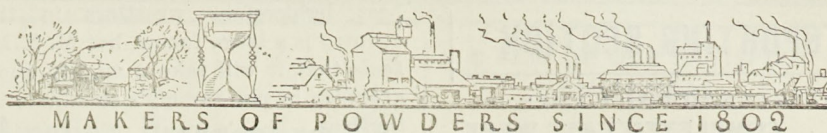
Shurtleff College, Alton, Illinois, gives ten scholarships each year to veterans of the World War who received honorable discharge from the Army or Navy and to blood descendants of those who served in the Army or Navy during the war and whose service was terminated by death or honorable discharge.

ROBERT HAROLD ROHLOFF.

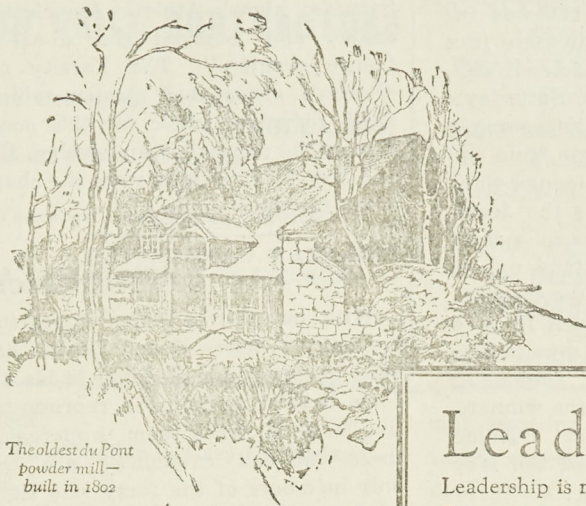
A "Babygram" from Mr. and Mrs. J. H. Rohloff, Providence, Rhode Island, announces to the world that on April 5, 1926, a son, Robert Harold, weighing seven pounds and one ounce, arrived safely and that the mother and father are delighted. Joe received his B. S. degree in '21 and his M. S. in '22 and is now with the Otis Bros. Refinery in Providence. The Miner extends congratulations to the happy father and mother.

One third of the students at Illinois College made an average of "B" or better during the last semester. A "B" in Illinois is equivalent to an "S" in Missouri.

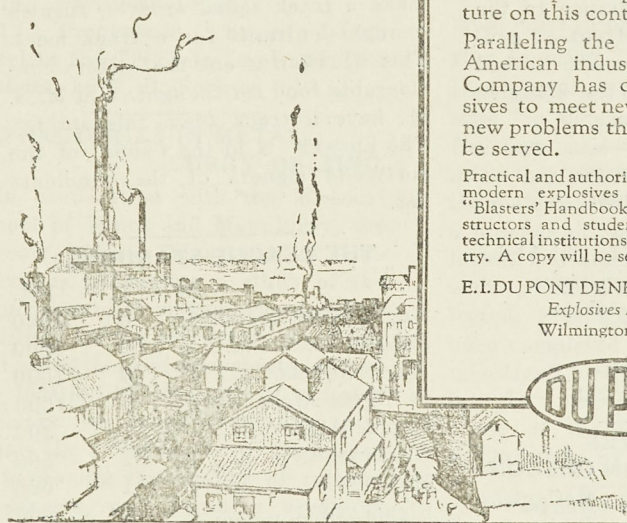
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SPORTING SECTION

TWO INTRA-MURAL GAMES
COMPLETED LAST WEEK.

The intra-mural League horsehide chasers managed to sneak in two complete games Saturday afternoon after a week of wet weather. The Lambda Chi-Prospector tilt was indefinitely postponed until their jinx on the weather has time to cool off.

In the initial game of Saturday's twin bill the Pi Kappa Alphas won a 4 to 3 extra inning struggle from the Kappa Alphas. Gifford's mound work supported by Morris, was the deciding factor for the victors in a tight game. Holman and Ragland upheld the battery positions for the losers.

The Grubstakers scored a 13 to 5 victory over the Bonanza nine in Saturday's second combat. Gammeter hurled the horsehide for the winners, with Morris backstopping. Cushing supported by Arra started the fray for the Bonanzas.

April showers may add to the population of May flowers, but are proving a considerable hindrance to the baseball series. The advent of sunshine for awhile will do much toward making a completion of the fifty-five scheduled games possible.

Next Eight Games.

Faculty v. Independents.
Sigma Nu v. Mercier.
Kappa Sigma v. Lambda Chi Alpha
Pi Kappa Alpha v. Prospectors.
Kappa Alpha v. Grubstakers.
Faculty v. Bonanza.
Independents v. Mercier.
Kappa Sigma v. Sigma Nu.

SAMMY CRAIG ARRIVES
WITH COACH IN OREGON.

Last Saturday Coach McCanless and his protege, Sammy Craig, arrived in Corvallis, Oregon, primed for four days of hard training to bring M. S. M.'s championship entrant down to a fine point. Sammy will draw for his initial opponent on Wednesday and he is due to trod the canvas Thursday in his first hand-to-hand struggle.

Coach McCanless intends to send a daily report on the results of Sammy's matches and these will be posted on the bulletin boards. Sammy is due to wrestle with a galaxy of luminaries from the whole nation, and if victorious his victory will be indeed a reward of strenuous combat. In considering Sammy's chances for the championship at Corvallis, the fact that he is contending with the

best lightweight wrestlers in the country is a large factor, but M. S. M. feels that it will take a mighty good grappler to pin Sammy's shoulders to the mat.

ATHLETIC ASSOCIATION DANCE.

Undaunted by adverse weather conditions a goodly crowd attended Saturday night's Athletic Association dance, and enjoyed the so-called "large evening." The Varsity orchestra's syncopated strains sobbed forth seductive music for this occasion of the terpsichorean revelry. Mr. and Mrs. F. E. Dennie were the chaperons for the evening.

THIRTEEN CANDIDATES
OUT FOR TRACK.

With but thirteen men appearing for daily practice Coach Dennie has been having rough sledding in his efforts toward moulding a representative M. S. M. track team. Apparently these thirteen candidates are the only members of the forty who signed up that have fulfilled their pledge.

Obviously thirteen men do not make a track squad or even furnish enough entrants for a track meet. This situation is one that offers considerable food for thought. Will M. S. M. have a track team this spring? The answer is in the hands of the forty-odd signers of the candidate list.

THE LEAGUE STANDING.

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Faculty	1	0	1000
Independents.....	1	0	1000
Pi Kappa Alpha.....	1	0	1000
Kappa Alpha.....	1	1	500
Grubstakers	1	1	500
Mercier	0	1	000
Sigma Nu.....	0	1	000
Bonanza	0	2	000
Lambda Chi Alpha..	0	0	000
Prospectors	0	0	000

FREE SCHOLARSHIPS
TO HIGH SCHOOLS.

The Board of Control of the Michigan College of Mines, Houghton, Michigan, is offering a free scholarship to one student from every high school in the state of Michigan. The method of making the awards is left entirely up to the individual schools. As there are over 500 high schools affected by this offer, next year's Freshman class will probably be the largest ever enrolled at the Michigan College of Mines.

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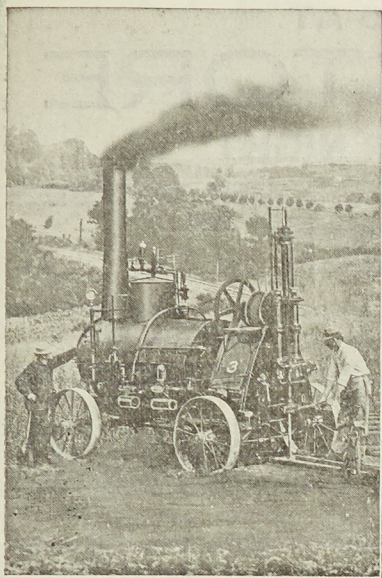
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RECEIVED LAST WEEK FROM BUREAU OF MINES.

News Items and Advance Notices Posted in Library.

1. New Mine-Safety Films Produced.
2. Losses in Milling of Precious Metal Ores.
3. Refractories in Metallurgy of Zinc.
4. Analysis of Copper-Palladium-Gold-Silver Concentrates.
5. Specific Gravity Study of Ores.
6. Bibliography on Zinc Retorts.
7. Sampling of Quicksilver.
8. Chloridizing Roasting and Brine Leaching of Ores.
9. Dirty Steel.
10. Experimental Blast Furnace.
11. Electric-Furnace Refractories.
12. Flow of Gas Through Solids.
13. Production of Steel by Direct

Methods.

14. Abnormality in Case Carburized Steels.
15. Production and Imports of Pyrites Increase in 1925.
16. Potash in 1925.
17. Progress in Use of 1-Inch Steel in the Tri-State Lead and Zinc District, by C. R. Forbes.

REFRACTORIES IN METALLURGY OF ZINC.

In cooperation with the Missouri School of Mines and Metallurgy, the Bureau of Mines, Department of Commerce, is conducting a study of the requirements of refractories for zinc smelting, of the refractory materials that meet these requirements, and of the location of deposits of suitable fireclays or other refractory materials, in an endeavor to find ways of improving the quality of retorts, condensers, and furnaces used for

zinc smelting. The cost of refractories, especially for retorts and condensers is a large item in the cost of smelting zinc ores. The specifications which a fireclay must meet in order to be suitable for zinc smelting are very strict. The first phase of the investigation consists in determining properties of fireclays, now used, for comparison in testing new materials. Samples of the materials being used for retorts at a number of smelters have been collected and tests of refractory properties on these samples have been collected. Chemical analyses have also been completed and this phase of the investigation will be completed early in the current year. The second phase of the investigation includes similar tests of new materials.

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FOR INFORMATION, Address,

The Registrar,
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